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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/832,660	04	/11/2001	Eddie Daems	210484	1837
23460	7590	07/25/2002			
LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE				EXAMINER	
				SAGAR, KRIPA	
CHICAGO,	O, IL 60601-6780				
				ART UNIT	PAPER NUMBER
				1756	5
				DATE MAILED: 07/25/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	;	Application No.	Applicant(s)				
•		09/832,660	DAEMS ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Kripa Sagar	1756				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)⊠	Responsive to communication(s) filed on 11	April 2001 .					
2a)□		his action is non-final.					
3)□	Since this application is in condition for allow	vance except for formal matters, p	rosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>							
4)⊠	Claim(s) 20-38 is/are pending in the application	ion.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>20-38</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/ on Papers	or election requirement.					
	The specification is objected to by the Examin	er					
10)⊠ The drawing(s) filed on is/are: a)⊠ accepted or b) objected to by the Examiner.							
יבשוי	Applicant may not request that any objection to t		•				
11)□ .	The proposed drawing correction filed on						
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13)🖾	Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. § 119(	a)-(d) or (f).				
a)	a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachmen	t(s)						
2) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)				

### **DETAILED ACTION**

### **AMENDMENTS**

1. The preliminary amendments filed on 4/11/01 has been entered. Claims 20-38 are pending. Claims 1-19 have been cancelled.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 20,21, 27-33,35-37 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat. 5262275 to Fan.

The instant claims disclose a method of forming a relief image using an imaging element on a UV-sensitive relief forming layer. The imaging element, with a peelable layer, is imaged. The element is used as a conformable mask to expose the UV - sensitive layer and developing it to form the relief image.

Fan discloses a flexographic printing element comprising a barrier layer and an infrared (IR) sensitive imaging layer on a photo-polymerizable layer. Fan teaches laminating the barrier layer and the IR-sensitive layer on the photo-polymerizable layer. The IR-sensitive layer is image-wise exposed by laser ablation. The photo-polymerizable layer is flood exposed using the layers above as mask. The overlying layers and the non-imaged areas are developed and removed. (2;34-45). A temporary

Art Unit: 1756

coversheet on the photo-polymerizable layer (if present) is removed prior to lamination(8;27-40). A peelable top layer is optionally included. This top layer on the IR sensitive layer may remain on the laminated composite for storage but is removed prior to imaging by laser ablation. Fan teaches composition of IR sensitive layers (claims 22-23) and includes metals(5; 56-7-45). The top peelable layer( claims 27,32) is a silicone coated mylar layer (15;9-10). A separate development step for removing the IR-sensitive layer and the barrier layer is disclosed (10;51-56). The UV-sensitive material (claims 33,35) may be a photoresist ("photocrosslinkable") or a flexographic ("photopolymerizable") precursor (3;1-10). Fan specifies a barrier layer which is adhered to the UV-sensitive layer by pressure or heat or both. It teaches a peelable protective sheet over the barrier layer (7;66-8;10).

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fan as applied to claim 20 above in view of US Pat.5888712 to Lelental et al.

The instant claims recite the limitations on the imaging layer in the mask.

The teachings of Fan have been discusses above. Fan teaches the composition

Application/Control Number: 09/832,660

Art Unit: 1756

of the imaging layer including metals; however these are directed towards a laserablatable process. It does not specify other imaging methods or elements.

Lelental's invention is directed towards forming a conductive layer over imaging layers used in fabricating printing plates. It teaches conventional image forming layers and methods. Such imaging elements include, for example, photographic, thermographic, electrothermographic, photothermographic, dielectric recording, dye migration, laser dye-ablation, thermal dye transfer, electrostatographic, and electrophotographic imaging elements (12;34-48).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Lelental to include diverse imaging elements in the mask-forming layer taught by Fan, because Fan teaches the advantages of integrating the mask ("phototool") with the relief-forming layer (1;49-65) while Lelental teaches numerous image forming elements conventionally available for use in the integrated mask.

6. Claims 34, 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fan as applied to claim 20 above in view of US Pat.4555471 to Barzynski et al.

The claim recites the limitations on the UV sensitive material and peeling off the mask layer as a development step.

The teachings of Fan have been discussed above. It teaches the precursors for a flexographic printing plate. It does not teach the relief layer for a lithographic plate. It teaches laser ablation to image the mask layer (IR-sensitive layer)

Application/Control Number: 09/832,660

Art Unit: 1756

and provides for development steps to remove the mask layer. It does not teach peeling the mask layer.

Barzynski's invention is directed towards a multilayer image recording material used in printing plates. It teaches prior art structures for lithographic printing plates (1; 20-26). It teaches the use of thermographic materials in the imaging layer of the mask. The mask layers and the relief imaging layers are formed separately and laminated. Following the imaging process, the mask layers may be peeled off (7;54-64).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Barzynski and Fan. Fan teaches the advantages of integrating the mask ("phototool") with the relief-forming layer (1;49-65) while Barzynski teaches that this can be accomplished with a peelable mask that dispenses with the wet processing steps (generally associated with other masks), thereby assuring good quality images during processing (8;57-65).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kripa Sagar whose telephone number is 703-605-4427. The examiner can normally be reached on 8:00AM--5:00PM (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F Huff can be reached on 703-308-2464. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Application/Control Number: 09/832,660

Art Unit: 1756

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

MH/ks July 22, 2002 MARK F. HUFF SUPERVISORY PATENT EXAMINER Page 6

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